

Figure 1a

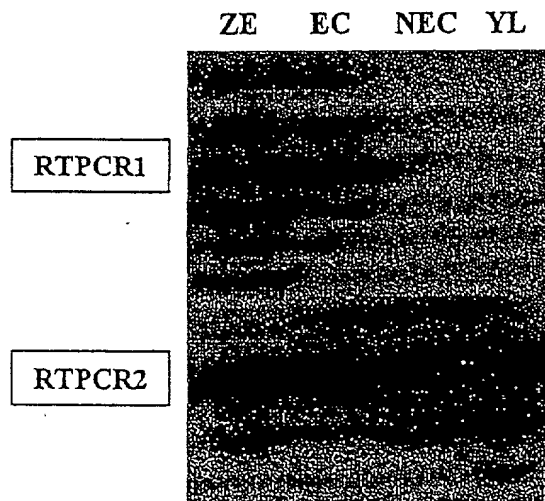


Figure 1b

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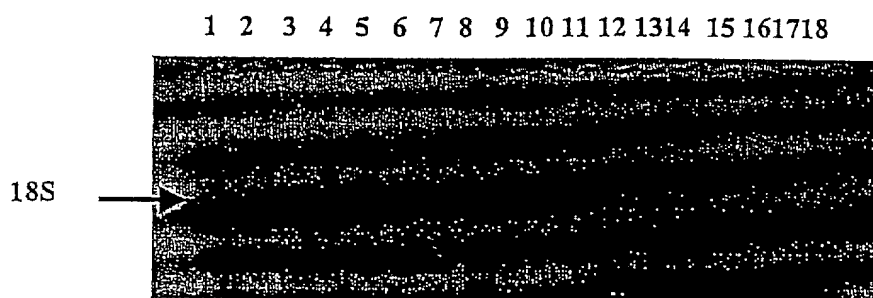
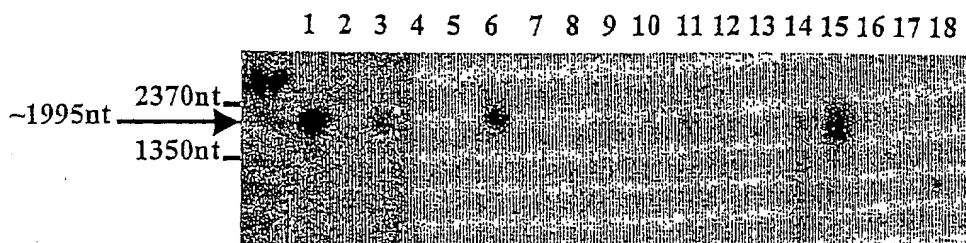


Figure 2a

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3	CAC	GAG	GTG	AAT	CGG	AGC	CGT	TGA	AAG	ATG	CCG	GGG	CTA	ACG	ATC	47
0									M	P	G	L	T	I		14
48	GGC	GAC	ACG	ATC	CCG	AAC	CTG	GAG	GTG	GAG	ACC	ACG	CAC	GGG	AAG	92
15	G	D	T	I	P	N	L	E	V	E	T	T	H	G	K	29
93	ATC	CGG	ATC	CAC	GAC	TAC	GTC	GGC	GAT	GGT	TGG	GCC	ATC	ATC	TTC	137
30	I	R	I	H	D	Y	V	G	D	G	W	A	I	I	F	44
138	TCC	CAT	CCC	GCG	GAT	TTC	ACA	CCC	GTG	TGC	ACG	ACG	GAG	CTG	GGG	182
45	S	H	P	A	D	F	T	P	V	C	T	T	E	L	G	59
183	AAG	ATG	GCG	GCG	TAC	GCG	GAG	GAG	TTC	GAG	AAA	AGA	GGG	GTG	AAG	227
60	K	M	A	A	Y	A	E	E	F	E	K	R	G	V	K	74
228	CTG	CTA	GGC	ATC	TCC	TGC	GAC	GAT	GTC	AAG	TGC	CAC	ATG	GAA	TGG	272
75	L	L	G	I	S	C	D	D	V	K	C	H	M	E	W	89
273	ATC	AAA	GAC	GTC	GAG	GCC	TAC	ACG	CCC	GGA	TGT	CGC	GTA	ACA	TAT	317
90	I	K	D	V	E	A	Y	T	P	G	C	R	V	T	Y	104
318	CCA	ATT	GTA	GCC	GAC	CCC	AAG	AGG	GAG	GTG	ATC	AAA	CTG	CTG	AAC	362
105	P	I	V	A	D	P	K	R	E	V	I	K	L	L	N	119
363	ATG	GTA	GAC	CCT	GAG	GAG	AAG	GAC	TCA	AAT	GGG	AAC	CAG	CTC	CCG	407
120	M	V	D	P	E	E	K	D	S	N	G	N	Q	L	P	134
408	TCA	CGG	GCC	CTT	CAT	ATA	GTG	GGC	CCT	GAT	AAG	AAG	GTT	AAG	CTG	452
135	S	R	A	L	H	I	V	G	P	D	K	K	V	K	L	149
453	AGC	TTT	CTG	TAC	CCG	GCG	TCG	ACG	GGG	CGG	AAC	ATG	GAG	GAG	GTG	497
150	S	F	L	Y	P	A	S	T	G	R	N	M	E	E	V	164
498	GTC	AGG	GTG	TTG	GAG	TCG	CTT	CAG	AAG	ACG	ATC	AAG	TAT	AAG	GTG	542
165	V	R	V	L	E	S	L	Q	K	T	I	K	Y	K	V	179
543	GCG	ACC	CCA	GCG	AAC	TGG	AAA	CCG	GGG	GAG	CCG	GTG	GTG	ATC	TCG	587
180	A	T	P	A	N	W	K	P	G	E	P	V	V	I	S	194
588	CCC	GAG	CGT	GTC	CAA	TGA	GGA	GGC	CAA	GCA	GAT	GTT	CCC	GCA	GGG	632
195	P	E	R	V	Q	*										
633	AGT	TGA	GAA	TGT	GAA	TCT	CCC	ATC	GAA	GAA	GGA	TTA	CCT	CCG	CTT	677
678	CAC	AAA	AGT	CTA	ATG	TTG	TTG	GGC	CGT	CCG	TGA	TAT	GTT	CAT	AAG	722
723	TGG	TTT	CTG	GGG	CCC	GAC	TGT	ATA	CTG	TGT	TGT	CGT	GTT	ATA	TGT	767
768	TTG	TGT	TGG	TAT	CAT	GTA	GTT	TGT	GCC	TTA	GGG	GAG	TTT	GGA	TAT	812
813	TAA	TTT	GTA	GTT	TAT	GTT	AAT	TAT	TAA	AGT	TTT	TAC	CAT	GAG	ATT	857
858	AAA	AAA	AAA	AAA	AAA	AAA										875

Figure 3

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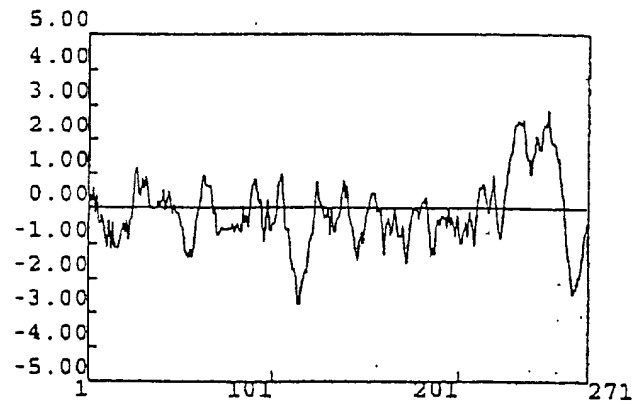


Figure 2b

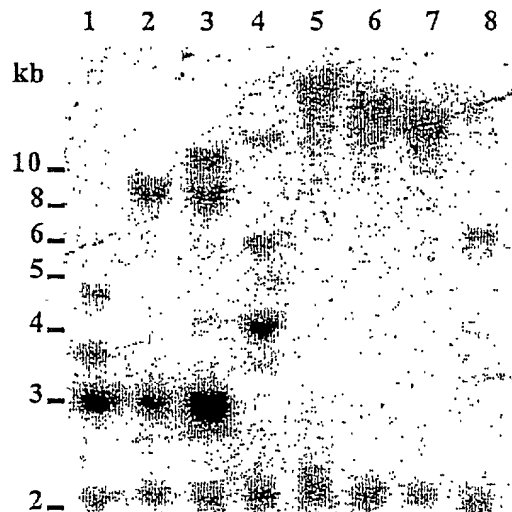


Figure 2c



Figure 4a

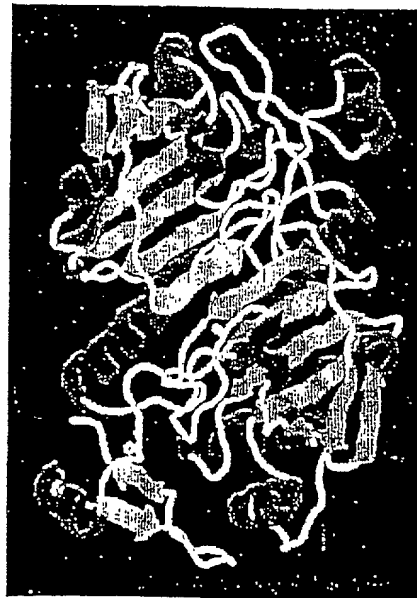


Figure 4b



Figure 4c

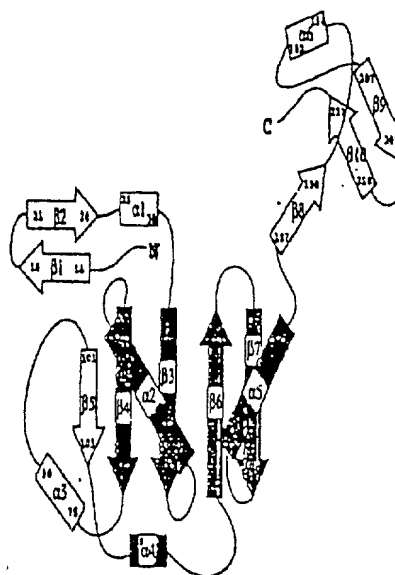


Figure 4d

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OPEm1 -----MPGLT-----
HvPer1 -----MPGLT-----
AtPer1 -----MPGIT-----
C2CPRX MASVASSTTLISSASVLPATKSSLLPSPSLSLFLPTLSSSPSPSASLRSLVPLPSPQSASS
          : * :

OPEm1 -----IGDTIPNLEVETTHG-----KIRIHDYVGDGWAIIFSHPADF
HvPer1 -----IGDTVPNLELDSTHG-----KIRIHDYVGNVILFSGPGDF
AtPer1 -----LGDTVPNLEVETTHD-----KFKLHDYFANSWTVLFSHPGDF
C2CPRX SRRSFAVKGQTDDLPLVGNKAPDFAEGVFDQEFIKFIKVKLSDYIGKKYVILFFLPLDF
          : * . * : * : . . . * : : * * . . : : * * *

OPEm1 TPVCTTELKGMAAYAEFEKRGVKLLGISCD--DVKCHMEWIKDVEAYTPGCRVTYPIVA
HvPer1 TPVCTTELAAMANYAKEFEKRGVKLLGISCD--DVQSHKEWTKDIEAYKPGSKVTYPIMA
AtPer1 TPVCTTELGAMAKYAHEFDKRGVKLLGLSCD--DVQSHKDWIKDIEAFNHGSKVNYPIIA
C2CPRX TFVCPTEITAFSDRYAEFEKLNTEVLGVSVDVSVFVSHLAGVQTDKFGGLGDLNYPLIS
          * * . * : : * : * . : : * : * . * : : : : * : : * : :

OPEm1 DPKREVIKLLNMVDPEEKDSNGNQLPSRALHIVGPDKKVKLSFLYPASTGRNMEEVVRVL
HvPer1 DPDRSAIKQLNMVDPEKDAQG-QLPSRTLHIVGPDKVVKLSFLYPSTGRNMDEVVRV
AtPer1 DPNKEIIPQLNMIDPIE---NG---PSRALHIVGPDKIKLSFLYPSTGRNMDEVLRAL
C2CPRX DVTKSISKSFGVLIHDQ---G---IALRGLFIIDKEGVIOHSTIN-LGIGRSVDETMRTL
          * : . : : : * . * * . : : : * : * : : * : : * : :

OPEm1 ESLQKTIKY--KVATPANWKPGEPVVISP---ERVQ-----
HvPer1 DSSLTAAKH--KVATPANWKPGECVVIAPGVSDEEAKMFPQGFTADLPSKKGYLRFTK
AtPer1 DSLLMASKHNNKIATPVNWKPDQPVVISPAVSDEEAKMFPQGFKTADLPSKKGYLRHTE
C2CPRX QALQYIQEGP-GEVCPAGWKPGEKSMKDPD---KLSKELFSAI-----
          : * : . * . * . : : : : : : : : : : : : : : :

OPEm1 --
HvPer1 V-
AtPer1 VS
C2CPRX --

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Figure 5

Figure 6